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From: David P. Halstead

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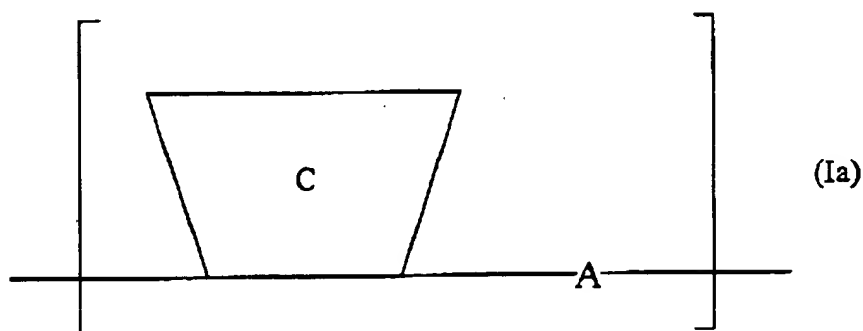
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Date: January 30, 2003
File Symbol: CTCH-P01-012
Submitted By: David P. Halstead

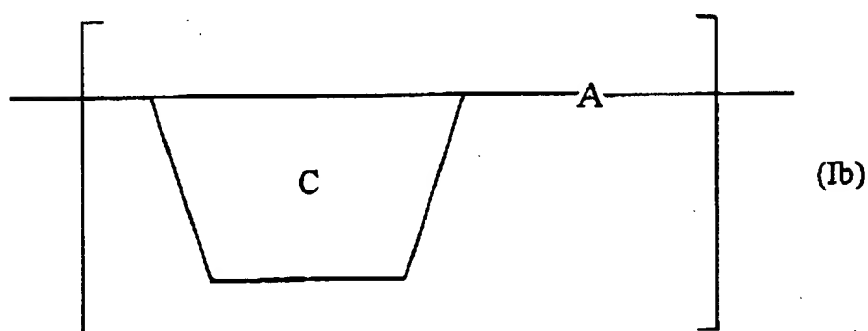
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1. (Amended) A water-soluble, linear cyclodextrin polymer comprising repeating units of formula Ia, Ib or a combination thereof:



and



wherein C is a substituted or unsubstituted cyclodextrin monomer and A is a linker that covalently links two cyclodextrin moieties together in the polymer backbone, wherein each C is attached to at most two occurrences of A.

2. A water-soluble, linear cyclodextrin polymer having a linear polymer backbone, which polymer comprises a plurality of substituted or unsubstituted cyclodextrin moieties and linker moieties in the linear polymer backbone, wherein each of the cyclodextrin moieties, other than a cyclodextrin moiety at the terminus of a polymer chain, is attached to two of said linker moieties, each linker moiety covalently linking two cyclodextrin moieties.

3. A water-soluble, linear cyclodextrin polymer comprising a plurality of cyclodextrin moieties covalently linked together by a plurality of linkers, wherein each

cyclodextrin moiety, other than a cyclodextrin moiety at the terminus of a polymer chain, is attached to two linkers so as to produce a linear cyclodextrin polymer.

4. A polymer of any of claims 1-3, wherein the cyclodextrin moieties are the same throughout the polymer.

5. A polymer of claim 4, wherein the cyclodextrin moieties are substituted by groups that do not form crosslinks with polymer strands.

*link of
moieties*

6. A polymer of any of claims 1-3, wherein the cyclodextrin moieties comprise at least two different cyclodextrin moieties.

7. A polymer of claim 6, wherein at least some of the cyclodextrin moieties are substituted.

8. A water-soluble, linear cyclodextrin polymer produced by a method comprising:

a) providing at least one cyclodextrin derivative modified to bear one reactive site at each of exactly two positions;

b) reacting the cyclodextrin derivative with a linker having exactly two reactive moieties capable of forming a covalent bond with the reactive sites under polymerization conditions that promote reaction of the reactive sites with the reactive moieties to form covalent bonds between the linker and the cyclodextrin derivative, whereby a linear polymer comprising alternating units of cyclodextrin derivatives and linkers is produced.

what is??

*Needs
further
reaction*

9. A polymer of claim 6, wherein the at least one cyclodextrin derivative includes a cyclodextrin derivative further modified to include at least one pendant moiety that is unreactive under the polymerization conditions.

10. A polymer of claim 9, wherein the pendant moiety comprises a targeting ligand.

*↓
needs added
def.*